Climate Change and Human Health Literature Portal

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Socio-environmental conditions and geographical variability of asthma prevalence in Northeast Brazil

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Abstract:

BACKGROUND: This study aims to evaluate the association between environmental and socio-economic conditions with asthma prevalence in the eight ISAAC centres in North-East Brazil. METHODS: Estimates on occurrence, severity and medical diagnoses of asthma in the previous 12 months were compared using environmental and socioeconomic indicators. Associations were assessed using simple linear regression and Pearson correlation coefficient. RESULTS: There was no difference in asthma prevalence between centres. Active asthma prevalence increased with increasing water privation, and this would explain 62 % of the observed prevalence. Median temperature increase was inversely related to active asthma (rEuro Surveillance (Bulletin Europeen Sur Les Maladies Transmissibles; European Communicable Disease Bulletin)0.81; p

Source: http://dx.doi.org/10.1016/s0301-0546(09)71722-7

Resource Description

Exposure : ⊠

weather or climate related pathway by which climate change affects health

 Food/Water Security, Temperature

   Temperature: Fluctuations

Geographic Feature: ⊠

resource focuses on specific type of geography

 Tropical

Geographic Location: ⊠

resource focuses on specific location

 Non-United States

   Non-United States: Central/South America

Health Impact: ⊠

specification of health effect or disease related to climate change exposure

Respiratory Effect

Respiratory Effect: Asthma

Population of Concern: A focus of content

Population of Concern: ☒

populations at particular risk or vulnerability to climate change impacts

Children, Low Socioeconomic Status

Resource Type: ☒

format or standard characteristic of resource

Research Article

Timescale: ☒

time period studied

Time Scale Unspecified